

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 August 2001 (30.08.2001)

PCT

(10) International Publication Number
WO 01/62905 A2

- (51) International Patent Classification⁷: C12N 9/64, 15/57, A61K 38/16, A61P 35/00, 37/00, 27/00, 17/02
- (74) Agent: SMITH, Julie, K.; 51 University Street, Seattle, WA 98101 (US).
- (21) International Application Number: PCT/US01/05701
- (22) International Filing Date: 23 February 2001 (23.02.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/184,865 25 February 2000 (25.02.2000) US
- (71) Applicant (for all designated States except US): IMMUNEX CORPORATION [US/US]; 51 University Street, Seattle, WA 98101 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FANSLOW, William, C., III [US/US]; 404 S.W. 197th Street, Normandy Park, WA 98166 (US). CERRETTI, Douglas, Pat [US/US]; 1607 North 197th Place, Seattle, WA 98133 (US). POINDEXTER, Kurt, Matthew [US/US]; 9247 Interlake Avenue North, Apt. 2, Seattle, WA 98103 (US). BLACK, Roy, A. [US/US]; 8062 30th Avenue Northeast, Seattle, WA 98115 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/62905 A2

(54) Title: INTEGRIN ANTAGONISTS

(57) Abstract: The present invention provides methods and compositions for inhibiting the biological activity of integrins, for inhibiting endothelial cell migration, and for inhibiting angiogenesis. In particular, the invention provides compositions comprising ADAM disintegrin domains and methods for using said compositions. In preferred embodiments the methods and compositions of the invention are used to inhibit angiogenesis and to treat diseases or conditions mediated by angiogenesis.

LOCUS AX235014 1668 bp DNA linear PAT 11-SEP-2001
 DEFINITION Sequence 17 from Patent WO0162905.
 ACCESSION AX235014
 VERSION AX235014.1 GI:15593673
 SOURCE synthetic construct.
 ORGANISM synthetic construct
 artificial sequences.
 REFERENCE 1 (bases 1 to 1668)
 AUTHORS Fanslow, W.C., Cerretti, D.P., Poindexter, K.M. and Black, R.A.
 TITLE Integrin antagonists
 JOURNAL Patent: WO 0162905-A 17 30-AUG-2001;
 IMMUNEX CORPORATION (US)

Query Match 37.3%; Score 846.4; DB 6; Length 1668;
 Best Local Similarity 99.3%; Pred. No. 3.8e-200;
 Matches 850; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

Qy 1146 TGTGGAAATGGATACGTGGAAGCTGGGGAGGAGTGTGATTGTGGTTTTTCATGTGGAATGC 1205
      |||
Db 91  TGTGGAAATGGATACGTGGAAGCTGGGGAGGAGTGTGATTGTGGTTTTTCATGTGGAATGC 150
      382
Qy 1206 TATGGATTATGCTGTAAGAAATGTTCCCTCTCCAACGGGGCTCACTGCAGCGACGGGCCC 1265
      |||
Db 151 TATGGATTATGCTGTAAGAAATGTTCCCTCTCCAACGGGGCTCACTGCAGCGACGGGCCC 210

Qy 1266 TGCTGTAACAATACCTCATGTCTTTTTTCAGCCACGAGGGTATGAATGCCGGGATGCTGTG 1325
      |||
Db 211 TGCTGTAACAATACCTCATGTCTTTTTTCAGCCACGAGGGTATGAATGCCGGGATGCTGTG 270

Qy 1326 AACGAGTGTGATATTACTGAATATTGTACTGGAGACTCTGGTCAGTGCCCAACCAATCTT 1385
      |||
Db 271 AACGAGTGTGATATTACTGAATATTGTACTGGAGACTCTGGTCAGTGCCCAACCAATCTT 330

Qy 1386 CATAAGCAAGACGGATATGCATGCAATCAAATCAGGGCCGCTGCTACAATGGCGAGTGC 1445
      |||
Db 331 CATAAGCAAGACGGATATGCATGCAATCAAATCAGGGCCGCTGCTACAATGGCGAGTGC 390
      464
Qy 1446 AAGACCAGAGACAACCAGTGTGAGTACATCTGGGGAACAAAGGCTGCAGGGTCTGACAAG 1505
      |||
Db 391 AAGGCCAGAGACAACCAGTGTGAGTACATCTGGGGAACAAAGGCTGCAGGGTCTGACAAG 450

Qy 1506 TTCTGCTATGAAAAGCTGAATACAGAAGGCACTGAGAAGGGAAACTGCGGGAAGGATGGA 1565
      |||
Db 451 TTCTGCTATGAAAAGCTGAATACAGAAGGCACTGAGAAGGGAAACTGCGGGAAGGATGGA 510

Qy 1566 GACCGGTGGATTCACTGCAGCAAACATGATGTGTTCTGTGGATTCTTACTCTGTACCAAT 1625
      |||
Db 511 GACCGGTGGATTCACTGCAGCAAACATGATGTGTTCTGTGGATTCTTACTCTGTACCAAT 570

Qy 1626 CTTACTCGAGCTCCACGTATTGGTCAACTTCAGGGTGAAGATCATTCCAACCTCCTTCTAC 1685
      |||
Db 571 CTTACTCGAGCTCCACGTATTGGTCAACTTCAGGGTGAAGATCATTCCAACCTCCTTCTAC 630

Qy 1686 CATCAAGGCCGGGTGATTGACTGCAGTGGTGCCCATGTAGTTTTAGATGATGATACGGAT 1745
      |||
Db 631 CATCAAGGCCGGGTGATTGACTGCAGTGGTGCCCATGTAGTTTTAGATGATGATACGGAT 690
  
```

Qy	1746	GTGGGGCTATGTAGAAGATGGAACGCCATGTGGCCCCTCTATGATGTGTTTAGATCGGAAG	1805
Db	691	GTGGGGCTATGTAGAAGATGGAACGCCATGTGGCCCCTCTATGATGTGTTTAGATCGGAAG	750
Qy	1806	TGCCTACAAATTCAAGCCCTAAATATGAGCAGCTGTCCACTCGATTCCAAGGGTAAAGTC	1865
Db	751	TGCCTACAAATTCAAGCCCTAAATATGAGCAGCTGTCCACTCGATTCCAAGGGTAAAGTC	810
Qy	1866	TGTTCGGGCCATGGGGTGTGTAGTAATGAAGCCACCTGCATTTGTGATTTACCTGGGCA	1925
Db	811	TGTTCGGGCCATGGGGTGTGTAGTAATGAAGCCACCTGCATTTGTGATTTACCTGGGCA	870
Qy	1926	GGGACAGATTGCAGTATCCGGGATCCAGTTAGGAACCTTCACCCCCCAAGGATGAAGGA	1985
Db	871	GGGACAGATTGCAGTATCCGGGATCCAGTTAGGAACCTTCACCCCCCAAGGATGAAGGA	930
Qy	1986	CCCAAGGGTTTGTGTG 2001	
Db	931	CCCAAGGGTCCTAGTG 946	

THIS PAGE BLANK (USP10)